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NEW LITERATURE ON RADIO PROBLEMS

Vestnik Svyazi /Communications
Herald/, No 5, 1955, Moscow,
inside back cover

Unsigned Article

Alekseyev, S. P., Kubarkin, L. V., Loseva, A. A., Kak Provodyatsya
Televizionnye Peredachi /How Television Transmissions Are Conducted/,
1954, Moscow, The All-Union Society for Dissemination of Political
and Scientific Knowledge, Znaniye Publishing House, 48 pages, 1.2
rubles.

In the first part of the pamphlet the technology of television
transmissions is related in popular form: the second part is devoted
to problems of organizing transmissions.

Arshinov, S. S., Raschet Lampovykh Generatorov (Generatory nezavisimogo
vozbuzhdeniya maloy i srednoy moschnosti) /Computation of Tube
Generators (Generators of Separate Excitation of Small and Medium
Capacity)/, 1955, Moscow-Leningrad, Gosenergoizdat, 359 pages,
14.20 rubles.

The book gives the fundamentals for computing the duties and
parts of small and medium capacity tube generators of separate
excitation. Chief attention is given to getting optimal power
ratios, increasing the accuracy of computation, and elucidation of
certain problems which do not enter the program of the textbooks
for the course 'Radio-Transmitting Devices.' The book is intended
for engineers, technicians, and students of senior courses which
specialize in the field of radio-transmitting devices.

Volin, M. L., Usiliteli promezhutochnoy chastoty /Amplifiers of Inter-
mediate Frequency/, 1955, Moscow-Leningrad, Gosenergoizdat, second
edition, revised, 176 pages, price 6.6 rubles.

The theory and simplified methods of computing intermediate fre-
quency amplifiers of radio receivers are expounded. Problems
analyzed are screening, decoupling circuits, and choking parasitic
feed-backs in amplifiers; an analysis is made of various circuits
and designs of amplifiers. Distortions during amplification of
various kinds of signals are examined and grounds are elaborated
for selection of the main parameters of amplifiers. The book is
intended for radio specialists engaged in the design, production,
and regulation of radio receivers for any wave lengths. It can
also be used as a textbook by university and technical institute
students when studying corresponding sections of the course "Radio-
Receiving Devices."

Yel'yashkevich, S. A., Ustraneniye neispravnostey v televizore /Elim-
inating Faults in Television Receiver/ Mass Radio Library, No 211,
1954, Moscow-Leningrad, Gosenergoizdat, 152 pages, 2 insets, 4.2
rubles.

Methods are related for checking the main indexes of the tele-
vision set by external signs, determining a faulty unit by means of
block-circuits and finding breakdowns in separate stages of the
television set. On the example of sets being produced, the circuit
singularities of separate units and faults that arise in them are
examined. Separate chapters of the book are devoted to reducing the

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effect of interference on reception, to eliminating distortions because of incorrect installation of antenna and to instruments necessary for making the main measurements during the checkup and tuning of the television set. Also given are brief descriptions and circuits of the television sets "Avangard," "Sever," and "Temp." The book is intended for radio amateurs and radio technicians who are engaged in the repair of television sets.

Kalantarov, P. L. and Tseytlin, L. A., Raschet induktivnosti [Computation of Inductance], reference book, 1955, Moscow-Leningrad, Gosenergoizdat, 368 pages, 12.5 rubles.

The book examines questions of computing inductance that engineers have to confront when solving many problems related to various fields of electrical engineering. Formulas are given, tables and curves for computing the separate and mutual inductance of wires, circuits and coils of diverse form. The general formulas and methods of computing are illustrated by numerical examples. The book is intended for engineers and research workers.

Radio. Sbornik statey iz zhurnal "Radio" [Collected Volume of Articles from the Magazine "Radio"/], 1954, Moscow, Dosaaf Publishing House, 215 pages, 1 inset, 4.1 rubles.

The volume contains 26 articles grouped in 3 parts: radio amateur movement, television and radio tubes.

Rizkin, A. A., Osnovy teorii usilitel'nykh skhem [Foundations of the Theory of Amplifying Circuits], second edition, 1954, Moscow, "Sovietskoye Radio" Publishing House, 439 pages, 13.5 rubles.

The book consists of 11 chapters: general methods of analyzing amplifying circuits, selective amplifiers, amplifiers of voltage of sound frequencies, amplifiers with feed-back, certain circuits of amplifiers with feed-back, wide-band amplifiers, impulse amplifiers, certain circuits of impulse amplifiers, amplifiers of direct current, amplifiers of capacity of sound frequencies, tubeless amplifiers. Appendixes give approximate methods of constructing characteristics, theorem of the duality of couplings and dual circuits, graphical computation of corrections of the frequency characteristics of feed-back and table of operational ratios.

Ministry of the Radio Technical Industry USSR, Tekhnika televideniya [Technology of Television] No 3 (9), 1954, Moscow-Leningrad, Gosenergoizdat, 48 pages, gratis.

The following articles appear: N. D. Galinskiy, "On the Function of Target of Shmakov-Timofeyev Transmitting Tube"; Yu. A. Nemilov and V. E. Privalova, "Effect of Oxygen on Certain Physical Properties of the Antimonic-Cesium Photo-cathode"; B. V. Krusser, "General Method of Computing Television Transmitting Tubes with Accumulation of Charges"; and I. K. Malakhov, "Development of Methods of Taking Down Aperture Characteristics of Transmitting Tubes."

Troitskiy, L. V., Sbornik otvetov na voprosy radiolyubiteley [Symposium of Replies to Questions of Radio Amateurs/ Mass Radio Library, No 214, 1954, Moscow-Leningrad, Gosenergoizdat, 112 pages, 3.8 rubles.

The volume contains replies to questions often encountered in radio amateur practice. The replies are drawn up on the basis of materials and practical proposals that have been published in the

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radio amateur press. Answers are also given to organizational questions connected with radio amateur activity. The book is mainly intended for the radio amateur of average skill.

Eylenkrig, A. I., and Glikman, S. E., Modulyatsionnye ustroystva dlya peredatchikov s amplitudnoy modulyatsiyey /Modulating Devices for Transmitters with Amplitude Modulation/, 1954, Moscow, "Sovetskoye Radio" Publishing House, 240 pages, 7.85 rubles.

The book consists of 8 chapters: terminal stage of modulator for transmitters with anode modulation, preterminal stage of modulator, stages of preliminary amplification, modulating devices for transmitters with grid modulation, modulating devices for multi-grid tubes, application of negative feed-back, design of circuits of transmitters with negative feed-back, parasitic modulation of transmitters and measures for reducing it. The book is intended for a wide circle of engineers and technicians of radio broadcasting and radio communications, and also for students of the senior courses of special educational institutions.

Elektronnyye lampy /Electronic Tubes/, Vol II, 1954, translated from the English by L. S. Yakovleva, edited by S. A. Obolensky, Moscow, Sovetskoye Radio Publishing House, 420 pages, 19.1 rubles.

The second volume of K. Shpangenberg's book Electronic Tubes contains 8 chapters on the following: electrostatic electronic optics, magnetic lens, electron-ray tubes, superhigh-frequency phenomena in usual tubes, tubes with velocity modulation or klystrons, magnetrons, photoelectronic tubes, special tubes.

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